We claim:

1. A method for freeing differential stuck pipe in a subterranean well-drilling operation with water based drilling fluids, said method comprising:
   - (a) determining the density needed for a spotting fluid to facilitate positioning of said spotting fluid at the site of the sticking;
   - (b) preparing or obtaining a spotting fluid comprising a water-in-oil invert emulsion comprising iso-butyl oleate as the external phase and glycerin as the internal phase;
   - (c) adjusting the density of said spotting fluid with additives such that the needed density may be obtained;
   - (d) introducing the spotting fluid into the wellbore;
   - (e) allowing said spotting fluid to reach the location of the stuck pipe and to unstick the stick pipe; and
   - (f) resuming drilling operation without removing the spotting fluid from the well.

2. The method of claim 1 wherein said additives comprise barite.

3. The method of claim 1 wherein said spotting fluid contacts the surface of said pipe and the wall of said well at the sticking point in unsticking said pipe.

4. The method of claim 1 further comprising allowing said spotting fluid to mix with drilling fluid used in the drilling operation.

5. The method of claim 4 wherein said spotting fluid enhances the lubricity of said drilling operation.

6. A method for freeing differential stuck pipe in a subterranean well-drilling operation with water based drilling fluids, said method comprising:
   - (a) determining th density needed for a spotting fluid to facilitate positioning of said

spotting fluid at the site of the sticking;

(b) preparing or obtaining a spotting fluid comprising a water-in-oil invert emulsion comprising iso-butyl oleate as the external phase and calcium chloride as the internal phase;

(c) adjusting the density of said spotting fluid with additives such that the needed density may be obtained;

(d) introducing the spotting fluid into the wellbore;

(e) allowing said spotting fluid to reach the location of the stuck pipe and to unstick the stick pipe; and

(f) resuming drilling operation without removing the spotting fluid from the well.

7. The method of claim 1 wherein said additives comprise barite.

8. The method of claim 1 wherein said spotting fluid contacts the surface of said pipe and the wall of said well at the sticking point in unsticking said pipe.

9. The method of claim 1 further comprising allowing said spotting fluid to mix with drilling fluid used in the drilling operation.

10. The method of claim 4 wherein said spotting fluid enhances the lubricity of said drilling operation.

11. A spotting fluid for freeing differential stuck pipe comprising an invert water-in-oil emulsion comprising iso-butyl oleate as the external phase and glycerin as the internal phase.

12. A spotting fluid for freeing differential stuck pipe comprising an invert water-in-oil emulsion comprising iso-butyl oleate as the external phase and calcium chloride as the internal phase.

13. A method for freeing stuck pipes in a subterranean well-drilling operation comprising

introducing a spotting fluid having the composition of claim 11 into the interior of a drill pipe, forcing said fluid through the drill bit and allowing said fluid to contact the exterior of the pipe and the wall of the well at the point of sticking.

14. A method for freeing stuck pipe in a subterranean well-drilling operation comprising introducing a spotting fluid having the composition of claim 12 into the interior of a drill pipe, forcing said fluid though the drill bit and allowing said fluid to contact the exterior of the pipe and the wall of the well as at the point of sticking.